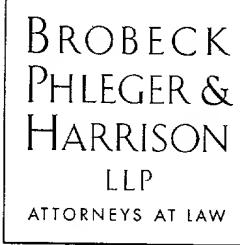


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SUITE 800
WASHINGTON, D.C. 20005

0003 U.S. PRO
09/839536
04/23/01

April 23, 2001

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket Number: **031676.0212**

First Named Inventor: **Kirk Emil APT et al**

Title: **TROPHIC CONVERSION OF OBLIGATE PHOTOTROPHIC ALGAE
THROUGH METABOLIC ENGINEERING**

TO: **BOX PATENT APPLICATION**

Commissioner for Patents
Washington, D.C. 20231

Sir:

Attached are the following for filing with the U.S. Patent and Trademark Office:

1. Fee Transmittal Form (original and duplicate)
2. Specification - Total Pages: 54 (Including Abstract)

CLAIMS AS FILED						
	Claims Filed	Basic Fee Claims	Extra	Rate		Amount
				Large Entity	Small Entity	
Total Claims	22	20	2	\$ 18.00	\$ 9.00	\$18.00
Independent Claims	5	3	2	\$ 80.00	\$ 40.00	\$80.00
First Presentation of Multiple Dependent Claims				\$ 270.00	\$ 135.00	\$
BASIC FEE				\$ 710.00	\$ 355.00	\$355.00
TOTAL FILING FEE						\$453.00

3. Drawings - Total Sheets: 6 (Fig(s). 1-7)
4. Oath or Declaration - Total Pages: 3
 - a. Newly executed (original or copy)
 New (unexecuted)
 - b. Copy from a prior application
(for continuation/divisional with Box 17 completed)

**BOX PATENT APPLICATION**

April 23, 2001

Page 2

i. DELETION OF INVENTOR(s):

Signed statement attached deleting inventor(s) named in prior application.

5. Incorporation By Reference (useable if Box 4b is marked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
a. Computer Readable Copy
b. Paper Copy (identical to computer copy)
c. Statement verifying identity of above copies

8. Assignment and Assignment Recordation Form

9. 37 C.F.R. 3.73(b) Statement Power of Attorney

10. English Translation Document (if applicable)

11. Information Disclosure Statement with PTO-1449 and References
 Copies of Information Disclosure Statement Citations

12. Preliminary Amendment

13. Return Receipt Postcard

14. Small Entity Status Claimed: Independent Inventor
 Small Business Concern
 Non-Profit Organization
 Statement Enclosed
 Statement Filed in Prior Application; Status Still Proper and Desired

15. Foreign Priority is Claimed as Follows:

 If Foreign Priority is Claimed, Certified Copy of the Above Priority Document(s) is Submitted Herewith

16. Other: _____

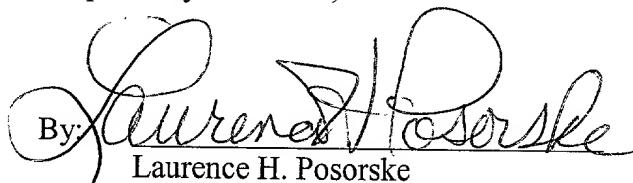
17. Continuation Divisional Continuation-in-Part of
Prior Application No.: _____ filed _____
 Complete Application Based on Provisional Application No.: 60/198,742
filed April 21, 2000

18. A new power of attorney or authorization of agent (PTO/SB/81) is as follows:
 The power of attorney is to: Rodger L. Tate, Reg. No. 27,399; Anthony W. Shaw, Reg. No. 30,104; James Remenick, Reg. No. 36,902; Cono A. Carrano, Reg. No. 39,623; Michael J. Songer, Reg. No. 39,841; Laurence H. Posorske, Reg. No. 34,698; Floyd B. Chapman, Reg. No. 40,555; David J. Kulik, Reg. No. 36,576; Robert A. King, Reg. No. 42,738 and Trevor Q. Coddington, Reg. No. 46,633.

19. Please address all correspondence to:
 CUSTOMER NUMBER **26118**
 Laurence H. Posorske
Intellectual Property Department
Brobeck, Phleger & Harrison LLP
1333 H Street, N.W.
Suite 800
Washington, DC 20005

20. A check in the amount of \$ _____ is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any such variance to **Deposit Account No. 50-1640**.
 The Commissioner is hereby authorized to charge any variance between the amount enclosed and the Patent Office charges to **Deposit Account No. 50-1640**.

Respectfully submitted,

By: 
Laurence H. Posorske
Registration No. 34,968

LHP:nb
Enclosures